- 5. (Currently Amended) A-<u>The</u> token according to claim 3<u>1</u>, further comprising a radio unit (42) for transmitting the communication data from said protocol conversion unit (41) to the use device through a radio section.
- 6. (Currently Amended) A-The token according to claim 1, further comprising a battery (BAT1 BAT3) for supplying power.
- 7. (Currently Amended) A-The token according to claim 6, wherein said battery comprises a secondary battery charged by power supply from the use-device when said authentication token is connected to the use-device.
- 8. (Currently Amended) A-<u>The</u> token according to claim 1, wherein said storage unit has, in addition to a storage area for storing the registered data, at least one storage area for storing another information.
- 9. (Currently Amended) A-The token according to claim 7, wherein said at least one storage area for storing another information includes a storage area for storing personal information of the user and a storage area for storing service information.
- 10. (Currently Amended) An authentication system for executing user authentication, which is necessary for use of a use-device (2, 102) for executing predetermined processing, by using biometrical information of a user, characterized by comprising:

an authentication token (1, 101) which is normally held by the user and, when the user is to use said use device, the authentication token connected to said use device and to perform user authentication on the basis of the biometrical information of the user,

said authentication token (1, 101) comprising

a personal collation unit (15)-including a sensor (11)-for detecting the biometrical information of the user and outputting a detection result as sensing data, a storage unit (12) which stores in advance registered data to be collated with the biometrical information of the

user, and a collation unit (13)-for collating the registered data stored in said storage unit (12)-with the sensing data from said sensor (11)-and outputting a collation result representing a user authentication result as authentication data, and

a first communication unit (14)-for transmitting the authentication data from said personal collation unit (15) to said use device as communication data,

said personal collation unit and communication unit being integrated, and said use device (2, 102) comprising

a second communication unit (21) for receiving the communication data transmitted from said authentication token (1, 101) and outputting the data as the authentication data, and a processing unit (22) for executing the predetermined processing on the basis of the

collation result contained in the authentication data from said second communication unit-(21).

- 11. (Currently Amended) A-The system according to claim 10, wherein said storage unit has a plurality of storage areas for storing not only the registered information of the user but also another information.
- 12. (Currently Amended) A-The system according to claim 10, wherein said storage unit (12) of said authentication token (1, 101) stores in advance user information unique to the user, which is to be used for processing in said use device (2),

said collation unit (13) of said authentication token (1, 101) outputs the authentication data containing the user information read out from said storage unit (12), and

said processing unit (22) of said use device (2, 102) executes processing using the user information contained in the authentication data from said second communication unit (21).

- 13. (Currently Amended) A-The system according to claim 10, further comprising a data conversion module (3, 41) connected to said authentication token (1, 101) to convert the communication data from said first communication unit (14) of said authentication token into a predetermined data format and transmit the communication data to said use device (2, 102).
- 14. (Currently Amended) A-The system according to claim 10, wherein

said system further comprises a radio module-(4) connected to said authentication token (1, 101) to transmit the communication data from said first communication unit (14) of said authentication token (1) to said use device (2) through a radio section, and

said use device (2, 102) comprises a radio unit (23) for receiving the communication data transmitted from said radio module (4) through the radio section and outputting the communication data to said second communication unit-(21).

15. (Currently Amended) A-The system according to claim 13, wherein said system further comprises a radio module-(4) connected to said authentication token (1, 101) to transmit the communication data from said data conversion module (41) to said use device through a radio section, and

said use device (2, 102) comprises a radio unit (23) for receiving the communication data transmitted from said radio module (4) through the radio section and outputting the communication data to said second communication unit-(21).

- 16. (Currently Amended) A-<u>The</u> system according to claim 10, wherein said authentication token (1, 101) further comprises a battery for supplying power into said authentication token.
- 17. (Currently Amended) A-The system according to claim 13, wherein said data conversion module (3) further comprises a battery for supplying power into said data conversion module and authentication token.
- 18. (Currently Amended) A-The system according to claim 14, wherein said radio module (4) further comprises a battery for supplying power into said radio module (4) and authentication token (1, 101).
- 19. (Currently Amended) A-<u>The</u> system according to claim 16, wherein said battery comprises a secondary battery charged by power supply from said use-device when said authentication token is connected to said use device.

20. (Currently Amended) A-The token according to claim 1, wherein

said authentication token further comprises another storage circuit (112) for storing a password of said authentication token (101) and token identification information for identifying said authentication token, and

when the personal collation result indicates that the collation is successful, said communication unit (113) transmits the password and token identification information in said another storage circuit (112) to said service providing apparatus as the communication data.

21. (Currently Amended) An authentication system for executing user authentication, which is necessary when a user is to use a service providing apparatus for providing a predetermined service, by using biometrical information of the user, characterized by comprising:

an authentication token (101) which is normally held by the user and, when the user is to use said service providing apparatus, connected to said service providing apparatus (102) to perform user authentication on the basis of the biometrical information of the user,

said authentication token (101) comprising a personal collation unit (111) for performing collation on the basis of the biometrical information detected from the user to check whether the user is an authentic user, a storage circuit (112) for storing a password of said authentication token and token identification information for identifying said authentication token, and a first communication unit (113) for, when a collation result by said personal collation unit indicates that collation is successful, transmitting the password and token identification information in said storage circuit to said service providing apparatus (102) as communication data, and

said service providing apparatus (102) comprising a second communication unit (121) for receiving the communication data from said authentication token, a first database (122) for storing the token identification information and password of said authentication token in advance in association with each other, a collation circuit (123) for collating the password contained in the communication data with a password obtained from said first database using the token identification information as a key, and a processing unit (124) for providing the service to the user on the basis of a collation result by said collation circuit.

- 22. (Currently Amended) A-The system according to claim 21, further comprising a registration apparatus (103) connected to said service providing apparatus (102) through a communication network (104) to register the token identification information and password in said database (122) in association with each other.
- 23. (Currently Amended) A-The system according to claim 21, wherein said service providing apparatus (102) has a password generation circuit (125) for generating a new password and transmitting the new password to said authentication token through said second communication unit and updating the password stored in said first database (122), and

said first communication unit (113) of said authentication token updates the password stored in said storage circuit (112) by the new password received from said service providing apparatus.

24. (Currently Amended) A-The system according to claim 21, wherein said service providing apparatus (102) has a storage circuit (126) for storing device identification information for identifying said service providing apparatus, and said second communication unit (121) reads out the device identification information from said storage circuit (126) and transmits the identification information to said authentication token when said authentication token is connected, and

said authentication token (101) has a second database (114) for storing the password and the device identification information for identifying the service providing apparatus (102) in association with each other, and said first communication unit (113) uses, as the password to be transmitted to said service providing apparatus, a password obtained from said second database (114) using the device identification information received from said service providing apparatus as a key.

25. (Currently Amended) An authentication method of executing user authentication, which is necessary when a user is to use a service providing apparatus for providing a predetermined

service, between the service providing apparatus and an authentication token for executing the user authentication using biometrical information of the user, characterized in that

the authentication token (101)-stores in advance a password of the authentication token and token identification information for identifying the authentication token, performs collation on the basis of the biometrical information detected from the user to check whether the user is an authentic user, and when a collation result indicates that collation is successful, transmits the password and token identification information to the service providing apparatus (102) as communication data, and

the service providing apparatus (102) stores the token identification information and password of the authentication token in advance in a first database (122) in association with each other, collates the password contained in the communication data received from the authentication token with a password obtained from the first database (122) using the token identification information as a key, and provides the service to the user on the basis of a collation result.

- 26. (Currently Amended) A<u>The</u> method according to claim 25, wherein the token identification information and password are registered in the first database (122) in association with each other from a registration apparatus (103) connected to the service providing apparatus through a communication network (104).
- 27. (Currently Amended) A<u>The</u> method according to claim 25, wherein

the service providing apparatus (102) causes a password generation circuit to generate a new password, transmits the new password to the authentication token (101) through the second communication unit (121), and updates the password stored in the first database (122), and

the authentication token (101) updates the password stored in advance by the new password received from the service providing apparatus.

28. (Currently Amended) A<u>The</u> method according to claim 25, wherein the service providing apparatus (102)-stores device identification information for identifying the service providing apparatus in advance, and transmits the device identification information to the authentication token when the authentication token (101)-is connected, and

the authentication token (101)-stores in advance the password and the device identification information for identifying the service providing apparatus (102)-in a second database (114)-in association with each other, and uses, as the password to be transmitted to the service providing apparatus-(102), a password obtained from the second database (114)-using the device identification information received from the service providing apparatus as a key.

29. (Currently Amended) A recording medium which stores a program for causing a computer to execute an authentication procedure of executing user authentication, which is necessary when a user is to use a service providing apparatus (102) for providing a predetermined service, between the service providing apparatus (102) and an authentication token for executing the user authentication using biometrical information of the user,

said program comprising the steps of:

in the service providing apparatus—(102), storing token identification information and a password of the authentication token in a first database (122) in advance in association with each other;

in the authentication token-(101), after collation of the user based on the biometrical information detected from the user, and when a collation result indicates that collation is successful, receiving communication data containing the password of the authentication token (101) and the token identification information for identifying the authentication token, which is transmitted for the authentication token;

collating the password contained in the communication data with a password obtained from the first database (122) using the token identification information as a key; and providing the service to the user on the basis of a collation result.

30. (Currently Amended) A<u>The</u> medium according to claim 29, wherein said program further comprises-the step of, in the service providing apparatus-(102), registering the token

identification information and password in the first database (122) in association with each other from a registration apparatus (103) connected to the service providing apparatus through a communication network.

31. (Currently Amended) A<u>The</u> medium according to claim 29, wherein said program further comprises-the steps of:

in the service providing apparatus (102), causing a password generation circuit (125) to generate a new password;

transmitting the new password to the authentication token (101)-through the second communication unit so as to update the password stored in the authentication token in advance; and

updating the password stored in the first database (122) by the new password.

32. (Currently Amended) A<u>The</u> medium according to claim 29, wherein said program further comprises the steps of:

in the service providing apparatus (102), storing device identification information for identifying the service providing apparatus in advance; and

transmitting the device identification information to the authentication token when the authentication token (101) is connected so as to store the password and the device identification information used to identify the service providing apparatus (102) in the authentication token in a second database (114) in association with each other, and searching the second database (114) for a password using the device identification information received from the service providing apparatus as a key as the password to be transmitted to the service providing apparatus.

33. (Currently Amended) A program for causing a computer to execute an authentication procedure of executing user authentication, which is necessary when a user is to use a service providing apparatus (102) for providing a predetermined service, between the service providing apparatus (102) and an authentication token (101) for executing the user authentication using biometrical information of the user,

said program causing the computer to execute the steps of:

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in the service providing apparatus—(102), storing-store token identification information and a password of the authentication token in a first database (122) in advance in association

with each other;

in the authentication token (101), after collation of the user based on the biometrical information detected from the user, and when a collation result indicates that collation is successful, receiving receive communication data containing the password of the authentication token and the token identification information for identifying the authentication token, which is transmitted for the authentication token;

collating collate the password contained in the communication data with a password obtained from the first database using the token identification information as a key; and providing provide the service to the user on the basis of a collation result.

- 34. (Currently Amended) A<u>The</u> program according to claim 33, <u>said program further causing</u> the computer to further comprising the step of, in the service providing apparatus, registering the token identification information and password in the first database in association with each other from a registration apparatus connected to the service providing apparatus through a communication network.
- 35. (Currently Amended) A<u>The</u> program according to claim 33, <u>said program further causing</u> the computer to further comprising the steps of:

in the service providing apparatus, <u>eausing-cause</u> a password generation circuit to generate a new password;

transmitting the new password to the authentication token through the second communication unit so as to update the password stored in the authentication token in advance; and

updating update the password stored in the first database by the new password.

36. (Currently Amended) A<u>The</u> program according to claim 33, <u>said program further causing</u> the computer to further comprising the steps of:

in the service providing apparatus, storing store device identification information for identifying the service providing apparatus in advance; and

transmitting the device identification information to the authentication token when the authentication token is connected so as to store the password and the device identification information used to identify the service providing apparatus in the authentication token in a second database in association with each other, and searching the second database for a password using the device identification information received from the service providing apparatus as a key as the password to be transmitted to the service providing apparatus.

37. (Currently Amended) A biometrical information authentication storage which locks or unlocks a door of a main body in storing an article in the main body or taking out the article stored in the main body, and also unlocks the door on the basis of authentication of biometrical information of a user, characterized by comprising:

drive means (213) for locking/unlocking the door;

storage means (212) for storing the biometrical information of the user; and processing means (211) for controlling said drive means to unlock the door on the basis of matching between stored information in said storage means and detected information from a sensor for detecting the biometrical information of the user, said processing means controls said drive means to unlock the door on the basis of matching between the stored information in said storage means and the fingerprint image from a fingerprint authentication token having the sensor for detecting the fingerprint image of the user as the biometrical information, wherein the fingerprint authentication token is independent of the main body and physically separated from the main body.

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fingerprint authentication token having the sensor for detecting the fingerprint image of the user as the biometrical information.

39. (Currently Amended) A-The storage according to claim 38, wherein said processing means comprises

lock means for, when the fingerprint image of the user, which is transmitted from the fingerprint authentication token, is received in storing the article in the main body, controlling said drive means to lock the door and storing the received fingerprint image in said storage means, wherein each time the door is locked the fingerprint image received from the authentication token is stored in the storage means, and

unlock means for controlling said drive means to unlock the door when the fingerprint image of the user, which is transmitted from the fingerprint authentication token, is received in taking out the article stored in the main body, and the received fingerprint image <u>transmitted</u> <u>from the fingerprint authentication token</u>, and matches the <u>fingerprint image stored</u> <u>stored</u> <u>information</u> in said storage means.

40. (Currently Amended) A-<u>The</u> storage according to claim 38, wherein said processing means comprises

lock means for, when the fingerprint authentication token is inserted into the main body in storing the article in the main body, controlling said drive means to lock the door, generating a password, storing the password in said storage means, transmitting the password to the fingerprint authentication token, and causing the fingerprint authentication token to store the password, and

unlock means for controlling said drive means to unlock the door when a password based on matching between a registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received in taking out the article stored in the main body, and the received password matches the password in said storage means.

41. (Currently Amended) A-<u>The</u> storage according to claim 38, wherein said processing means comprises

lock means for, when a password based on matching between a registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received in storing the article in the main body, controlling said drive means to lock the door, and storing the received password in said storage means, and

unlock means for controlling said drive means to unlock the door when the password based on matching between the registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received in taking out the article stored in the main body, and the received password matches the password in said storage means.

42. (Currently Amended) A-The storage according to claim 38, wherein said storage further comprises

a plurality of storage sections capable of independently storing articles and having corresponding doors,

designation means for designating one of the plurality of doors, and display means for displaying a number of the door, and said processing means comprises

first display control means for, when a corresponding door is closed in storing an article in a storage section, displaying the number of the door on said display means,

lock means for, when the door number displayed on said display means is designated by said designation means, and the fingerprint authentication token is inserted into the main body, controlling said drive means to lock the door, generating a password, storing the password and the door number in said storage means, transmitting the password and the door number to the fingerprint authentication token, and causing the fingerprint authentication token to store the password and the door number,

second display control means for, when the fingerprint authentication token is inserted into the main body in taking out the article stored in said storage section, displaying the door number stored in the fingerprint authentication token on said display means, and

unlock means for controlling said drive means to unlock the door when the door number displayed on said display means is designated by said designation means, and a password based

on matching between a registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received, and the received password matches the password in said storage means.

43. (Currently Amended) A-The storage according to claim 37, wherein said storage further comprises check means for checking coins of a predetermined amount, which are put in by the user in storing the article, and

when said check means checks that the coins of the predetermined amount are put in, said processing means controls said drive means to lock the door.

44. (Currently Amended) A lock/unlock method for a biometrical information authentication storage which locks or unlocks a door of a main body in storing an article in the main body or taking out the article stored in the main body, and also unlocks the door on the basis of authentication of biometrical information of a user, characterized by comprising:

the first step of unlocking the door on the basis of matching between stored information stored in storage means in advance and detected information from a sensor for detecting the biometrical information of the user; and

processing the first step comprises a second step of unlocking the door on the basis of matching between the stored information in the storage means and a fingerprint image from a fingerprint authentication token having the sensor for detecting the fingerprint image of the user as the biometrical information,

wherein the token is independent of the main body and physically separated from the main body.

45. (Currently Amended) A-The method according to claim 44, wherein the storage means stores a fingerprint image of the user as the biometrical information, wherein each user has a fingerprint authentication tokenand

processing in the first step comprises the second step of unlocking the door on the basis of matching between the stored information in the storage means and the fingerprint image from a fingerprint authentication token having the sensor for detecting the fingerprint image of the user as the biometrical information.

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46. (Currently Amended) A-The method according to claim 45, wherein processing in the second step comprises

the <u>a</u> third step of, when the fingerprint image of the user, which is transmitted from the fingerprint authentication token, is received in storing the article in the main body, locking the door and storing the received fingerprint image in the storage means, wherein each time the door is locked the fingerprint image received from the authentication token is stored in the storage means, and

the a fourth step of matching the fingerprint image stored in the storage means with the finger print transmitted from the fingerprint authentication token, and unlocking the door when the fingerprint image of the user, which is transmitted from the fingerprint authentication token, is received in taking out the article stored in the main body, and the received fingerprint image matches the stored information-fingerprint image in the storage means.

47. (Currently Amended) A-The method according to claim 45, wherein processing in the second step comprises

the a fifth step of, when the fingerprint authentication token is inserted into the main body in storing the article in the main body, locking the door, generating a password, storing the password in the storage means, transmitting the password to the fingerprint authentication token, and causing the fingerprint authentication token to store the password, and

the a sixth step of unlocking the door when a password based on matching between a registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received in taking out the article stored in the main body, and the received password matches the password in the storage means.

48. (Currently Amended) A<u>The</u> method according to claim 45, wherein processing in the second step comprises

the <u>a</u> seventh step of, when a password based on matching between a registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received in storing the article in the main body, locking the door, and storing the received password in the storage means, and

the an eighth step of unlocking the door when the password based on matching between the registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received in taking out the article stored in the main body, and the received password matches the password in the storage means.

49. (Currently Amended) A<u>The</u> method according to claim 45, wherein the storage further comprises a plurality of storage sections capable of independently storing articles and having corresponding doors, and

processing in the second step comprises

the <u>a</u> ninth step of, when a corresponding door is closed in storing an article in a storage section, displaying a number of the door,

the <u>a</u> 10th step of, when the door number displayed on the basis of processing in the ninth step is designated, and the fingerprint authentication token is inserted into the main body, locking the door, generating a password, storing the password and the door number in the storage means, transmitting the password and the door number to the fingerprint authentication token, and causing the fingerprint authentication token to store the password and the door number,

the <u>an</u> 11th step of, when the fingerprint authentication token is inserted into the main body in taking out the article stored in the storage section, displaying the door number stored in the fingerprint authentication token, and

the <u>a</u> 12th step of unlocking the door when the door number displayed on the basis of processing in the 11th step is designated, and a password based on matching between a registered fingerprint image and the fingerprint image detected by the sensor and output from the fingerprint authentication token is received, and the received password matches the password in the storage means.

50. (Currently Amended) A<u>The</u> method according to claim 45, wherein the method further comprises the <u>a</u> 13th step of checking coins of a predetermined amount, which are put in by the user in storing the article, and

processing in the first step comprises the <u>a</u> 14th step of locking the door when that the coins of the predetermined amount are put in is checked on the basis of processing in the 13th step.

51. (Withdrawn) A gate opening/closing system for opening/closing an entrance gate for a site, characterized by comprising:

an authentication token (306) for authenticating a user on the basis of biometrical information of the user;

a database (302) for storing identification information of the user when the user prepays an admission to the site; and

control means (303) for, when said authentication token authenticates that the user is an authentic user, and the identification information of the user, which is stored in said authentication token in advance, is output from said authentication token at the time of entrance of the user to the site, receiving the identification information, and when the received identification information has been stored in said database, opening the entrance gate.

52. (Withdrawn) A gate opening/closing system for opening/closing an entrance gate for a site, characterized by comprising:

information transmission/reception means for transmitting/receiving information to/from an authentication token which stores identification information of a user;

a database for storing the identification information of the user when the user prepays an admission to the site; and

control means for opening the entrance gate when said authentication token authenticates that the user is an authentic user on the basis of biometrical information of the user, the identification information of the user, which is output from said authentication token, is received by said information transmission/reception means at the time of entrance of the user to the site, and the received identification information has been stored in said database.

- 53. (Withdrawn) A system according to claim 51, wherein said authentication token is a fingerprint authentication token for authenticating the user on the basis of fingerprint information of the user, and comprises storage means for storing the fingerprint information of the user, a fingerprint sensor for detecting a fingerprint of the user, and processing means for authenticating the user as the authentic user on the basis of matching between detected information from said fingerprint sensor and stored information in said storage means.
- 54. (Withdrawn) A system according to claim 52, wherein said authentication token is a fingerprint authentication token for authenticating the user on the basis of fingerprint information of the user, and comprises storage means for storing the fingerprint information of the user, a fingerprint sensor for detecting a fingerprint of the user, and processing means for authenticating the user as the authentic user on the basis of matching between detected information from said fingerprint sensor and stored information in said storage means.
- 55. (Withdrawn) A system according to claim 51, further comprising identification information assignment means for, when said fingerprint authentication token is inserted, and the user prepays the admission to the site, generating a password and causing said fingerprint authentication token to store the password as the identification information, and transmitting the password to said database and causing said database to store the password as the identification information of the user.
- 56. (Withdrawn) A system according to claim 52, further comprising identification information assignment means for, when said fingerprint authentication token is inserted, and the user prepays the admission to the site, generating a password and causing said fingerprint authentication token to store the password as the identification information, and transmitting the

password to said database and causing said database to store the password as the identification information of the user.

### 57. (Withdrawn) A system according to claim 51, wherein

said fingerprint authentication token stores an identification number of the user as the identification information in advance, and

said system further comprises identification information assignment means for, when said fingerprint authentication token is inserted, and the user prepays the admission to the site, reading the identification information from the fingerprint authentication token, transmitting the identification information to said database, and causing said database to store the identification information as the identification information of the user.

### 58. (Withdrawn) A system according to claim 52, wherein

said fingerprint authentication token stores an identification number of the user as the identification information in advance, and

said system further comprises identification information assignment means for, when said fingerprint authentication token is inserted, and the user prepays the admission to the site, reading the identification information from the fingerprint authentication token, transmitting the identification information to said database, and causing said database to store the identification information as the identification information of the user.

### 59. (Withdrawn) A system according to claim 51, further comprising

transmission means for converting identification information added to said authentication token and output from said authentication token into a radio signal or infrared signal and transmitting the signal, and

reception means, arranged near the entrance gate, for, upon receiving the radio signal or infrared signal transmitted by said transmission means, sending the identification information contained in the received radio signal or infrared signal to said control means.

60. (Withdrawn) A system according to claim 52, further comprising

transmission means for converting identification information added to said authentication token and output from said authentication token into a radio signal or infrared signal and transmitting the signal, and

reception means, arranged near the entrance gate, for, upon receiving the radio signal or infrared signal transmitted by said transmission means, sending the identification information contained in the received radio signal or infrared signal to said control means.

61. (Withdrawn) A biometrical information authentication automatic teller machine for providing, to a user, a service including deposit/withdrawal of cash for the user on the basis of authentication of biometrical information of the user, characterized by comprising:

a biometrical information authentication token for authenticating the user on the basis of the biometrical information of the user,

said biometrical information authentication token (1) comprising storage means (12) for storing the biometrical information of the user, a sensor (11) for detecting the biometrical information of the user, and processing means (13) for outputting control information on the basis of matching between detected information from said sensor and stored information in said storage means, and said biometrical information authentication automatic teller machine (401) comprising service providing means for providing the service to the user on the basis of the control information from said processing means.

62. (Withdrawn) A machine according to claim 61, wherein said machine further comprises a database (410) which stores an outstanding balance corresponding to an account number of the user in advance,

said storage means of said biometrical information authentication token stores the account number of the user,

said processing means outputs the account number in said storage means as the control information on the basis of matching between the detected information from said sensor and the stored information in said storage means, and

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acquisition means for, upon receiving the account number from said processing means, acquiring the outstanding balance corresponding to the received account number from said database,

withdrawal means for withdrawing cash corresponding to predetermined operation by the user from the outstanding balance acquired by said acquisition means, and

outstanding balance recording means for subtracting an amount withdrawn by said withdrawal means from the outstanding balance acquired by said acquisition means and storing a new outstanding balance in said database.

63. (Withdrawn) A machine according to claim 61, wherein

said machine further comprises a database which stores an outstanding balance corresponding to an account number of the user in advance,

said storage means of said biometrical information authentication token stores the account number of the user,

said processing means outputs the account number in said storage means as the control information on the basis of matching between the detected information from said sensor and the stored information in said storage means, and

said service providing means comprises

acquisition means for, upon receiving the account number from said processing means, acquiring the outstanding balance corresponding to the received account number from said database, and

outstanding balance recording means for adding an amount deposited by the user to the outstanding balance acquired by said acquisition means and storing a new outstanding balance in said database.

64. (Withdrawn) A biometrical information authentication automatic teller machine for providing, to a user, a service including deposit/withdrawal of cash for the user on the basis of authentication of biometrical information of the user, characterized by comprising:

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information transmission/reception means for transmitting/receiving information to/from a biometrical information authentication token for authenticating the user on the basis of comparison/collation between biometrical information stored in storage means and the biometrical information of the user, which is detected by a sensor; and

service providing means for, when said information transmission/reception means receives control information output from the biometrical information authentication token on the basis of matching between detected information from the sensor and the biometrical information in the storage means, providing the service to the user on the basis of the received control information.

65. (Withdrawn) A machine according to claim 64, wherein said machine further comprises a database which stores an outstanding balance corresponding to an account number of the user in advance,

the storage means of the biometrical information authentication token stores the account number of the user, and

said service providing means comprises

acquisition means for, when said information transmission/reception means receives the account number output from the biometrical information authentication token as the control information on the basis of matching between the detected information from the sensor and the biometrical information in the storage means, acquiring the outstanding balance corresponding to the received account number from said database,

withdrawal means for withdrawing cash corresponding to predetermined operation by the user from the outstanding balance acquired by said acquisition means, and

outstanding balance recording means for subtracting an amount withdrawn by said withdrawal means from the outstanding balance acquired by said acquisition means and storing a new outstanding balance in said database.

66. (Withdrawn) A machine according to claim 64, wherein said machine further comprises a database which stores an outstanding balance corresponding to an account number of the user in advance,

the storage means of the biometrical information authentication token stores the account number of the user, and

said service providing means comprises

acquisition means for, when said information transmission/reception means receives the account number output from the biometrical information authentication token as the control information on the basis of matching between the detected information from the sensor and the biometrical information in the storage means, acquiring the outstanding balance corresponding to the received account number from said database, and

outstanding balance recording means for adding an amount deposited by the user to the outstanding balance acquired by said acquisition means and storing a new outstanding balance in said database.

- 67. (Withdrawn) A machine according to claim 61, wherein when a passbook of the user is inserted, said outstanding balance recording means records information including the outstanding balance on the passbook.
- 68. (Withdrawn) A machine according to claim 64, wherein when a passbook of the user is inserted, said outstanding balance recording means records information including the outstanding balance on the passbook.
- 69. (Withdrawn) A machine according to claim 61, wherein said storage means stores a fingerprint image of the user as the biometrical information, said sensor detects the fingerprint image of the user as the biometrical information, and said processing means or biometrical information authentication token outputs the control information on the basis of matching between the fingerprint image detected by said sensor and the fingerprint image in said storage means.
- 70. (Withdrawn) A machine according to claim 69, wherein the storage means stores a fingerprint image of the user as the biometrical information, the sensor detects the fingerprint image of the user as the biometrical information, and

said processing means or biometrical information authentication token outputs the control information on the basis of matching between the fingerprint image detected by the sensor and

71. (Withdrawn) A portable terminal system comprising a portable terminal device (501) and a biometrical authentication device (502), characterized in that

said biometrical authentication device (502) comprises

the fingerprint image in the storage means.

biometrical information read means (11) for reading biometrical information of a user who holds said biometrical authentication device,

first storage means (12) for storing biometrical information of an authentic user registered in advance and personal information of the authentic user, and

a first processing unit (13, 14) for performing personal authentication by collating the biometrical information read by said biometrical information read means (11) with the biometrical information of the authentic user stored in said first storage means (12), and only when an authentication result represents that collation is successful, transmitting the personal information stored in said first storage means to said portable terminal device, and

said portable terminal device (501) comprises

second storage means (515) for storing the personal information transmitted from said biometrical authentication device (502), and

second processing means (514) for executing communication processing or data processing using the personal information stored in said second storage means.

72. (Withdrawn) A portable terminal system comprising a portable terminal device (501) and a biometrical authentication device (502), characterized in that

said biometrical authentication device (502) comprises

biometrical information read means (11) for reading biometrical information of a user who holds said biometrical authentication device,

first storage means (12) for storing biometrical information of an authentic user registered in advance and service information necessary for the authentic user to receive a service, and

a first processing unit (13, 14) for performing personal authentication by collating the biometrical information read by said biometrical information read means with the biometrical information of the authentic user stored in said first storage means, and only when an authentication result represents that collation is successful, transmitting the service information stored in said first storage means to said portable terminal device, and

said portable terminal device (501) comprises

second storage means (515) for storing the service information transmitted from said biometrical authentication device (502), and

second processing means (514) for executing communication processing or data processing using the service information stored in said second storage means.

73. (Withdrawn) A system according to claim 71, wherein the personal information contains a personal identification number of the authentic user, and

after the personal information is stored in said second storage means, said second processing means of said portable terminal device is connected to a network using the personal identification number contained in the personal information.

- 74. (Withdrawn) A system according to claim 72, wherein the service information contains a password used to log in to a web site, and after the service information is stored in said second storage means, said second processing means of said portable terminal device acquires, from the service information, a password corresponding to a web site accessed through a network and transmits the acquired password to the accessed web site.
- 75. (Withdrawn) A biometrical authentication device characterized by comprising: biometrical information read means for reading biometrical information of a user who holds said device;

storage means for storing biometrical information of an authentic user registered in advance and personal information of the authentic user; and

a processing unit for performing personal authentication by collating the biometrical information read by said biometrical information read means with the biometrical information of the authentic user stored in said storage means, and only when an authentication result represents that collation is successful, transmitting the personal information stored in said storage means to a portable terminal device,

wherein only when the authentication result represents that the collation is successful, the personal information is transmitted to the portable terminal device which does not hold the personal information, thereby allowing communication processing or data processing using the personal information.

76. (Withdrawn) A biometrical authentication device characterized by comprising: biometrical information read means for reading biometrical information of a user who holds said device;

storage means for storing biometrical information of an authentic user registered in advance and service information necessary for the authentic user to receive a service; and

a processing unit for performing personal authentication by collating the biometrical information read by said biometrical information read means with the biometrical information of the authentic user stored in said storage means, and only when an authentication result represents that collation is successful, transmitting the service information stored in said storage means to a portable terminal device,

wherein only when the authentication result represents that the collation is successful, the service information is transmitted to the portable terminal device which does not hold the service information, thereby allowing communication processing or data processing using the service information.

77. (Withdrawn) A device according to claim 75, wherein the personal information contains a personal identification number of the authentic user, which is necessary to connect the portable terminal device to a network.

- 78. (Withdrawn) A device according to claim 76, wherein the service information contains a password used to log in to a web site from the portable terminal device through a network.
- 79. (Withdrawn) A portable terminal device characterized by comprising:

storage means for receiving personal information of an authentic user from a biometrical authentication device and storing the personal information, the biometrical authentication device executing personal authentication using biometrical information of a user, and transmitting the personal information of the authentic user only when an authentication result indicates that collation is successful; and

processing means for executing communication processing or data processing using the personal information stored in said storage means,

wherein the communication processing or data processing using the personal information is executed only when the personal information stored in the biometrical authentication device is received.

80. (Withdrawn) A portable terminal device characterized by comprising:

storage means for receiving service information necessary for an authentic user to receive a service from a biometrical authentication device and storing the service information, the biometrical authentication device executing personal authentication using biometrical information of a user, and transmitting the service information only when an authentication result indicates that collation is successful; and

processing means for executing communication processing or data processing using the service information stored in said storage means,

wherein the communication processing or data processing using the service information is executed only when the service information stored in the biometrical authentication device is received.

81. (Withdrawn) A device according to claim 79, wherein the personal information contains a personal identification number of the authentic user, and

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after the personal information is stored in said storage means, said processing means of said portable terminal device is connected to a network using the personal identification number contained in the personal information.

82. (Withdrawn) A device according to claim 80, wherein the service information contains a password used to log in to a web site, and after the service information is stored in said storage means, said processing means of said portable terminal device acquires, from the service information, a password corresponding to a web site accessed through a network and transmits the acquired password to the accessed web site.

## 83. (Currently Amended) A token according to claim 1, wherein

said token further comprises an encryption circuit for encrypting data generated from the authentication data and dynamic information generated by the use-device and transmitted using a key registered in advance, and

said communication circuit transmits to the use-device encrypted data generated by said encryption circuit,

wherein the dynamic information changes each time it is generated.

# 84. (Currently Amended) A-The token according to claim 1, wherein said token further comprises

a result determination circuit for, when the collation result indicates that the authentication is successful, outputting the authentication data to said encryption circuit, and when the collation result indicates that the authentication fails, outputting the authentication data to said first communication circuit, and

an encryption circuit for, in accordance with the authentication data from said result determination circuit, encrypting dynamic information transmitted from the use device using a key registered in advance, adding obtained encrypted data to the authentication data, and outputting the encrypted data, and

said communication circuit transmits to the use-device the authentication data with the encrypted data from said encryption circuit or the authentication data from said result determination circuit.

85. (Currently Amended) A-The token according to claim 1, wherein said token further comprises

an encryption circuit for encrypting dynamic information transmitted from the use device using a key registered in advance and outputting obtained encrypted data to said first communication circuit as data, and

a first result determination circuit for, when the collation result indicates that the authentication is successful, instructing said encryption circuit to generate the encrypted data, and when the collation result indicates that the authentication fails, outputting data whose number of digits is different from that of the encrypted data that would be produced if the authentication was successful to said first communication circuit, and

said first communication circuit transmits to the use-device the data from said encryption circuit or the data from said first result determination circuit.

86. (Currently Amended) A-<u>The</u> token according to claim 84, wherein said token further comprises an ID storage circuit for storing identification information of said authentication token registered in advance, and

said first communication circuit transmits to the use-device the identification information stored in said ID storage circuit.

87. (Currently Amended) A-The system according to claim 10, wherein said storage circuit stores, as the user information, personal information of the user and service information related to the service provided by the use-device, and stores the personal information, service information, and registered information in separate storage areas.

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# 88. (Currently Amended) A-The system according to claim 10, wherein

said authentication token further comprises an encryption circuit for encrypting dynamic information transmitted from the use-device and data generated from the authentication data using a key registered in advance,

said first communication circuit transmits to the use device encrypted data generated by said encryption circuit, and

said processing unit comprises a dynamic information generation circuit for generating the dynamic information to be transmitted to said authentication token, a decryption circuit for decrypting the encrypted data transmitted from said authentication token using a key corresponding to the key, and a result determination circuit for executing the predetermined processing only when a collation result of the authentication data contained in the data decrypted by said decryption circuit indicates that the authentication is successful, and the dynamic information contained in the data matches the dynamic information generated by said dynamic information generation circuit and transmitted to said authentication token.

#### 89. (Currently Amended) A-The system according to claim 10, wherein

said authentication token further comprises a first result determination circuit for, when the collation result indicates that the authentication is successful, outputting the authentication data to said encryption circuit, and when the collation result indicates that the authentication fails, outputting the authentication data to said first communication circuit, and an encryption circuit for, in accordance with the authentication data from said first result determination circuit, encrypting dynamic information transmitted from the use-device using a key registered in advance, adding obtained encrypted data to the authentication data, and outputting the encrypted data.

said first communication circuit transmits to the use-device the authentication data with the encrypted data from said encryption circuit or the authentication data from said first result determination circuit, and

said processing unit comprises a dynamic information generation circuit for generating the dynamic information to be transmitted to said authentication token, a decryption circuit for decrypting the encrypted data transmitted from said authentication token using a key

corresponding to the key, and a second result determination circuit for causing said decryption circuit to decrypt the encrypted data added to the authentication data only when an authentication result of the authentication data from said authentication token, which is received by said second communication circuit, indicates that the authentication is successful, and executing the predetermined processing only when the obtained dynamic information matches the dynamic information generated by said dynamic information generation circuit and transmitted to said authentication token.

### 90. (Currently Amended) A-The system according to claim 10, wherein

said authentication token further comprises an encryption circuit for encrypting dynamic information transmitted from the use-device using a key registered in advance and outputting obtained encrypted data to said first communication circuit as data, and a first result determination circuit for, when the collation result indicates that the authentication is successful, instructing said encryption circuit to generate the encrypted data, and when the collation result indicates that the authentication fails, outputting data whose number of digits is different from that of the encrypted data to said first communication circuit,

said first communication circuit transmits to the use-device the data from said encryption circuit or the data from said first result determination circuit, and

said processing unit comprises a dynamic information generation circuit for generating the dynamic information to be transmitted to said authentication token, a decryption circuit for decrypting the encrypted data transmitted from said authentication token using a key corresponding to the key, and a second result determination circuit for causing said decryption circuit to decrypt the encrypted data added to the data only when the number of digits of the data from said authentication token, which is received by said second communication circuit, indicates the number of digits when the authentication is successful, and executing the predetermined processing only when the obtained dynamic information matches the dynamic information generated by said dynamic information generation circuit and transmitted to said authentication token.

91. (Currently Amended) A-The system according to claim 88, wherein said authentication token further comprises an ID storage circuit for storing identification information of said authentication token registered in advance,

said first communication circuit transmits to the use-device the identification information stored in said ID storage circuit, and

said decryption circuit decrypts the encrypted data from said authentication token using a key corresponding to the identification information transmitted from said authentication token.

92. (Currently Amended) A-The system according to claim 89, wherein said authentication token further comprises an ID storage circuit for storing identification information of said authentication token registered in advance,

said first communication circuit transmits to the use-device the identification information stored in said ID storage circuit, and

said decryption circuit decrypts the encrypted data from said authentication token using a key corresponding to the identification information transmitted from said authentication token.

93. (Currently Amended) A-The system according to claim 90, wherein said authentication token further comprises an ID storage circuit for storing identification information of said authentication token registered in advance,

said first communication circuit transmits to the use-device the identification information stored in said ID storage circuit, and

said decryption circuit decrypts the encrypted data from said authentication token using a key corresponding to the identification information transmitted from said authentication token.